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(54) INTAKE AND EXHAUST VALVE CONTROL
METHOD OF INTERNAL COMBUSTION ENGINE
AND DEVICE THEREOF

(57) Abstract:

PURPOSE: To reduce energy loss, and control a lift limiting and a lift amount freely, while simplifying a system, in a device in which the intake and exhaust valves of an internal combustion engine are opened/closed by oil pressure.

CONSTITUTION: A free piston 8 is pushed by high oil pressure switched by means of a solenoid valve 13 through a constant stroke smaller than the whole valve lift amount, and a plunger 9 which abuts on the free piston 8 and a valve stem 1 is struck by the free piston 8. The valve stem 1 is pushed by the inertia of the plunger 9 after the constant stroke end of the free piston 8 opposing to a valve spring 2, and the plunger 9 is pushed by low oil pressure switched by means of a solenoid valve 17 so as to stop a valve to a prescribed position.

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